ROHS-Compliant Product

O-6000SC Series

1. Specification

Frequency range:	5.0 ... 100.0 MHz	
Type:	**O-6500SC**	**O-6300SC**
Supply voltage V_S:	**+5.0 V** ± 5 %	**+3.3 V** ± 5 %
Frequency stability vs. temperature options:		
≤ ± 5 x 10^{-9} vs. 0 °C to +50 °C:	**655x**	**635x**
≤ ± 1 x 10^{-8} vs. –10 °C to +60 °C:	**656x**	**636x**
≤ ± 1 x 10^{-8} vs. –20 °C to +70 °C:	**657x**	**637x**
≤ ± 3 x 10^{-8} vs. –40 °C to +85 °C:	**658x**	**638x**
≤ ± 5 x 10^{-8} vs. –40 °C to +85 °C:	**659x**	**639x**
Aging stability option (after 30 days of operation)		
≤ ± 1 x 10^{-9} / day; < ± 1 x 10^{-7} / year:	**65x1**	**63x1**
≤ ± 2 x 10^{-9} / day; < ± 1 x 10^{-7} / year:	**65x2**	**63x2**
≤ ± 5 x 10^{-10} / day; < ± 5 x 10^{-8} / year:	**65x3**	**63x3**
Frequency stability vs. supply voltage changes V_S ± 5 %: vs. load changes ± 5 %:	≤ ± 5.0 x 10^{-9} ≤ ± 1.0 x 10^{-9}	
Frequency control by external voltage 0 V … V_{REF}:	≥ ± 1 ppm	
Linearity:	≤ 10 %	
Reference Voltage V_{REF}:	+4.0 V ± 5 %	+3.0 V ± 5 %
Power consumption @ +25 °C steady state: during warm-up:	 ≤ 1.5 W ≤ 3.5 W	
Warm-up time: (for a typical accuracy of ≤ ±10 ppb @ +25 °C referred to final frequency after 1 hour)	≤ 5 min	
Output voltage / Load Option **H**: Option **S**:	 (LV)HCMOS / 1 kOhm // 15 pF Sinewave / ≥ +3 dBm / 50 Ohm	
Phase noise	(typical for 10 MHz)	
10 Hz: 100 Hz: 1 kHz: 10 kHz:	-110 dBc / Hz -130 dBc / Hz -145 dBc / Hz -155 dBc / Hz	
Storage temperature range:	-45 °C ... +90 °C	

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3				**P.O.Box 61**
2				**D-74924 Neckarbischofsheim**
1		24.08.07	M. Zupan	Tel. +49 (0) 7263 / 648-0
ED	Description	Date	Name	Fax. +49 (0) 7263 / 6196

Subject to technical modification

O-6000SC Series

2. Environmental conditions

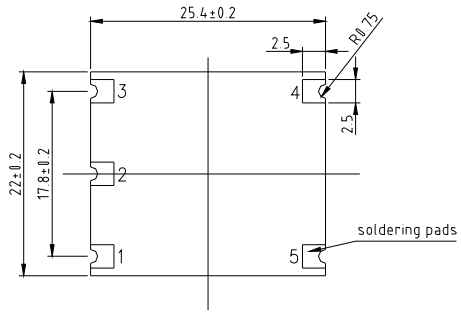
According to KVG Product Qualification Procedure AA-QM-200

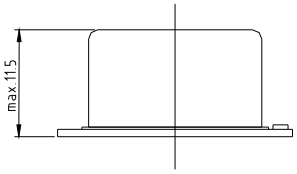
3. Marking

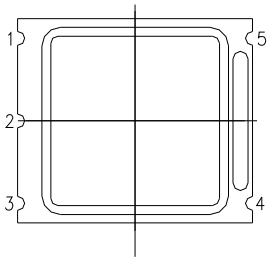
Manufacturer's name, date code(week/year); Specification; Center frequency

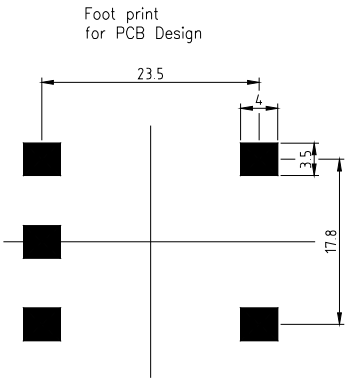
4. Case

BF144-11.5-SMD









1.Pin configuration

1. Control voltage V_C
2. Reference voltage output V_{REF}
3. Supply voltage V_S
4. RF-output
5. Ground, case

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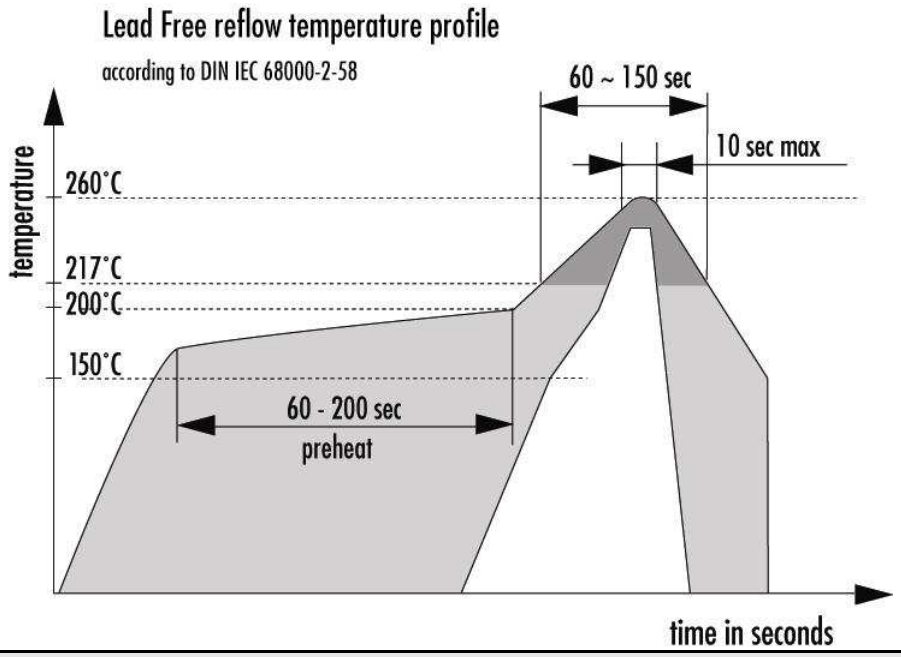
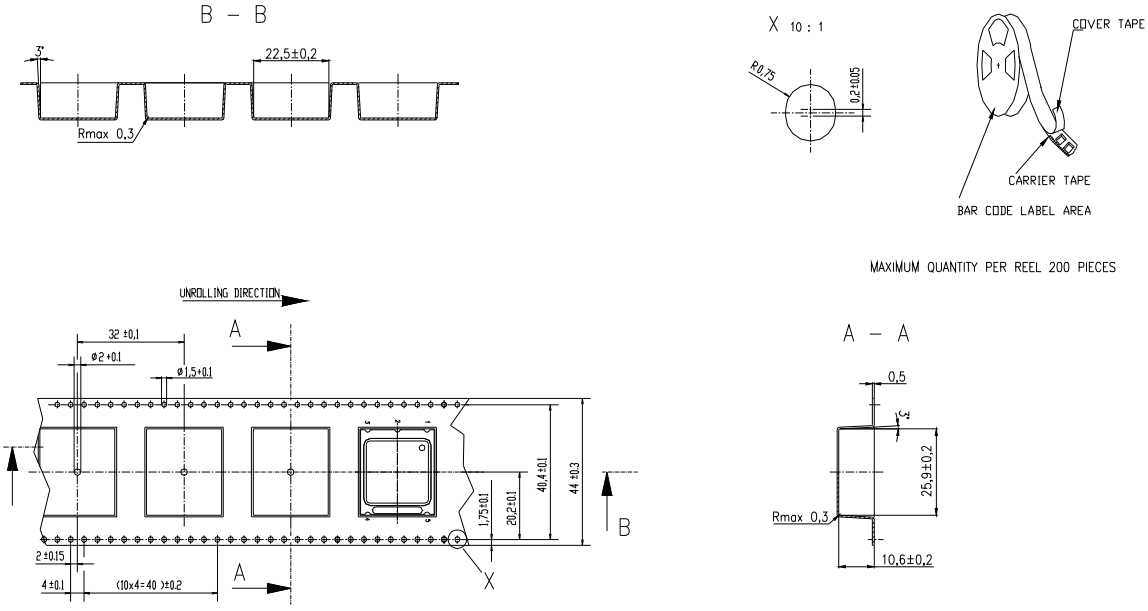
5.Recommended soldering profile



6. Tape and reel



max. pcs per tape: 150

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